To: Ex. 6 - Personal Privacy
Cc: Bill.Otto@house.mo.gov[Bill.Otto@house.mo.gov]
From: Sanders, LaTonya
Sent: Fri 12/20/2013 4:21:23 PM
Subject: Re: Per Your Request to Doug Clemens

Hi Harvey,

Below are the responses to your questions.

Thanks.

LaTonya E. Sanders

Congressional Liaison

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Season's Greetings!

The attached report was presented to our District in a public meeting on Thursday, November 21st after a separate "elected officials only" presentation that was well attended by Federal and local representatives. This report was also provided to local and national media outlets.

This report raises a number of concerns that we would like you to comment on:

1. The Thorium 230 present at WLL is as dangerous to human health as plutonium 239

Thorium-230, like any other radioactive element or isotope, can pose a health risk to people, but only if people are exposed to it.

2. The Th230 present at WLL is in particulates that are small enough to be respiratable

Regardless of the size of the waste particles containing thorium-230 at West Lake Landfill Operable Unit 1, it is EPA's intent to prevent public exposure to thorium-230 and other radionuclides found in the waste.

3. Regarding PHASE II testing for the barrier location, assuming #1 and #2 are true (the author sites soil studies backing this up)

a. It seem prudent to include testing for Th230 and its particle size distribution during Phase II testing (and all radionuclide particle sizes) independent of concentration.

b. If respiratable radionuclides are present, should there be a containment structure used during construction of the barrier?

Waste samples collected during the Phase 2 coring work along the proposed alignment of the subsurface barrier trench will be analyzed for uranium, thorium and radium isotopes. Air monitoring will be conducted to evaluate any potential generation of radiologically-contaminated

dust. Dust mitigation techniques will be available if they become necessary during the coring or the subsurface barrier trench construction, but are not expected to include a containment structure.

We look forward to your comments.

Regards and Happy Holidays,

Harvey